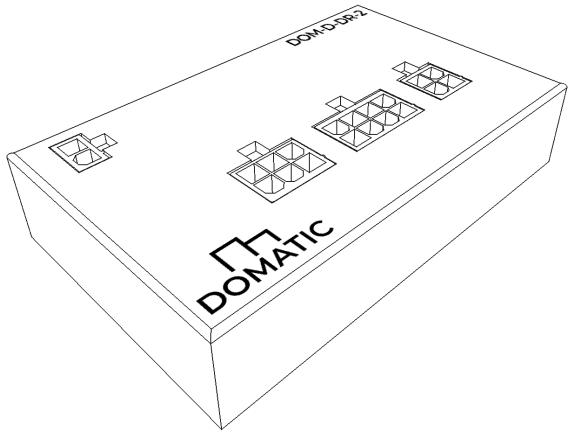
Door Access Controller

DOM-D-DR-1 | Lock Outputs | OSDP / Wiegand · Mobile Wallet | Domatic Bus



The Door Access Controller is a flexible, single-door access controller that brings credential readers, electric and magnetic locks, exit buttons, doorbells, and door-ajar sensors onto the Domatic Bus. Reader interfaces support the two most common physical-access protocols — OSDP and Wiegand — and the device works with the HID keypad alongside Apple Wallet and Google Wallet for smartphone or smart-watch unlock.

Per-door behavior — schedules, credential lists, anti-passback, forced-door / door-held alarms, and event reporting — is configured in software via the Domatic PowerHub, putting access policy in the same management plane as lighting, climate, and the rest of the building.

Key Features

- ✓ Single-door access controller — credential reader + lock + sensors + exit button on one device
- ✓ Reader support: OSDP and Wiegand
- ✓ Compatible with the HID keypad (model TBD) for PIN-code entry
- ✓ Mobile credentials via Apple Wallet and Google Wallet — unlock with iPhone, Apple Watch, Android phone, or Wear OS
- ✓ Lock outputs for both electric strikes and magnetic locks (fail-safe or fail-secure configurable)
- ✓ Inputs for door-ajar / door-position sensors and dry-contact buttons (push-to-exit, doorbell)
- ✓ Native Domatic Bus interface — power, control, and event reporting on a single 2-wire CL2 input
- ✓ Per-door access policy — schedules, credential lists, alarms — configured in software via the PowerHub

Reader Support

Reader Type	*Notes*
OSDP	Open Supervised Device Protocol — modern, encrypted, multi-drop RS485 reader protocol
Wiegand	Legacy industry-standard reader protocol; supported for compatibility with existing card readers
HID Keypad	Specific model TBD; PIN entry alongside card / mobile credentials
Apple Wallet	iPhone or Apple Watch as a credential
Google Wallet	Android phone or Wear OS smart watch as a credential

Note Mobile credentials require a credential-issuance partnership and PowerHub-side enrollment. Contact Domatic for setup details.

Door Hardware Support

Electric Latches / Strikes	Fail-safe or fail-secure, configurable per door
Magnetic Locks (Mag Locks)	Standard 12 V or 24 V hold-to-lock magnetic locks
Door-Ajar / Position Sensors	Dry-contact door position switch — reports open / closed and held-open alarms
Push-to-Exit Button	Dry-contact request-to-exit input — releases the lock momentarily
Doorbell Button	Dry-contact input — generates a doorbell event reported to the PowerHub

Electrical Specifications

Input — Domatic Bus

Input Voltage	Nominal 48 VDC (Domatic Bus)
Communication	Domatic Bus (IEEE 1901 HD-PLC over the same 2-wire pair as power)
Power Source	Domatic PowerHub output port
Max Input Power	TBD

Lock Outputs

Output Type	Switched DC for electric strike / magnetic lock
Output Voltage	TBD (typ. 12 V / 24 V)
Max Current per Lock	TBD
Modes	Fail-safe and fail-secure, software-selectable per door

Reader Interface

OSDP	RS485, encrypted, multi-drop
Wiegand	Standard Wiegand data lines

Sensor and Button Inputs

Input Type	Dry-contact (normally-open or normally-closed, software-selectable)
Wetting Voltage	TBD
Debounce	TBD

I/O Configuration

I/O	*Connector*	*Description*
Domatic Bus Input	Molex Mini-Fit, 2-pin	48 VDC and Domatic Bus protocol on the same pair. Mates with PowerHub output ports.
Reader	TBD	OSDP (RS485) or Wiegand reader connection
Lock Output	TBD	Switched DC output to electric strike or magnetic lock
Door Position	TBD	Dry-contact input from door position switch / ajar sensor
Push-to-Exit	TBD	Dry-contact REX (request-to-exit) input

I/O	*Connector*	*Description*
Doorbell	TBD	Dry-contact doorbell-button input

PowerHub Integration

Controller	Domatic PowerHub (required)
Credential Management	Card numbers, PINs, and mobile-wallet credentials issued and revoked from the PowerHub
Policy	Schedules, access groups, anti-passback, forced-door / door-held thresholds
Reporting	All access events (granted, denied, forced, held-open, doorbell, REX) reported to the PowerHub in real time
Mobile Wallet	Apple Wallet and Google Wallet credential issuance handled through the PowerHub-side enrollment flow

Mechanical Specifications

Dimensions	TBD
Weight	TBD
Enclosure Material	TBD
Mounting	TBD

Environmental Specifications

Operating Temperature	TBD
Humidity	TBD
Installation	Indoor (assumed — confirm; if outdoor-rated, note environment rating)

Standards & Compliance

Safety	TBD
Power Source	NEC Class 2 from the PowerHub output
Reader Protocols	OSDP, Wiegand
Mobile Credentials	Apple Wallet, Google Wallet

Ordering Information

Model Number	*Description*
DOM-D-DR-1	Access Controller — Single-door, OSDP / Wiegand reader, mobile-wallet credentials, Domatic Bus